Author index to volume 253

Aasa, R. see B.G. Karlsson 253 (1989) 99
Abramić, M. and L. Vitale, New chloride-activated aminopeptidase from human erythrocytes 253 (1989) 79
Alfonzo, M. see I. Lippo de Becemberg 253 (1989) 16
Allan, I.M. see B.M. Turner 253 (1989) 141
Arnon, D.I. and G.M.-S. Tang, Photoreduction of $NADP^+$ by a chloroplast photosystem II preparation: effect of light intensity 253 (1989) 253

Bach, J.-F. see M. Escurat 253 (1989) 157
Barrett, J. see A. Papadopoulos 253 (1989) 76
Bayan, N. and H. Therisod, Membrane-binding sites for acyl carrier protein in *Escherichia coli* 253 (1989) 221
Bdolah, A. see Y. Kloog 253 (1989) 199
Beatty, J.T. see J. Zilsel 253 (1989) 247
Beharry, S. and P.D. Bragg, Conformational change in beef-heart mitochondrial F_1 ATPase to ATP synthesis mode induced by dimethylsulfoxide and ATP revealed by sulfhydryl group labeling 253 (1989) 276
Beltzer, J.P., H.P. Wessels and M. Spiess, Signal peptidase can cleave inside a polytopic membrane protein 253 (1989) 93
Berzbor, H. see R. Demietzel 253 (1989) 1
Boitard, C. see M. Escurat 253 (1989) 157
Borchert, S., H. Große and H.W. Heldt, Specific transport of inorganic phosphate, glucose 6-phosphate, dihydroxyacetone phosphate and 3-phosphoglycerate into amyloplasts from pea roots 253 (1989) 183
Börner, G. see M. Karrasch 253 (1989) 226
Boudet, A.M. see H. Canut 253 (1989) 173
Bousso-Mittler, D. see Y. Kloog 253 (1989) 199
Bragg, P.D. see S. Beharry 253 (1989) 276
Brand, I.A. see H.-I. Trompeter 253 (1989) 63
Brann, M.R. see D.M. Weiner 253 (1989) 207
Briedigkeit, L. and C. Frömmel, Calcium ion binding by thermitase 253 (1989) 83
Broadhurst, A.V. see A.D. Richards 253 (1989) 214
Brophy, P.M. see A. Papadopoulos 253 (1989) 76
Brown, D. see S.K. Sikdar 253 (1989) 88
Bump, N.J. see V.A. Najjar 253 (1989) 129

Cadenas, E., G. Merényi and J. Lind, Pulse radiolysis study on the reactivity of Trolox C phenoxyl radical with superoxide anion 253 (1989) 235
Camarillo, I. see I. Lippo de Becemberg 253 (1989) 16
Cammack, R., A. Chapman, W.-P. Lu, A. Karagouni and D.P. Kelly, Evidence that protein B of the thiosulphate-oxidizing system of *Thiobacillus versutus* contains a binuclear manganese cluster 253 (1989) 239
Canut, H., A. Carrasco, A. Graziana, A.M. Boudet and R. Ranjeva, Inositol trisphosphate-stimulated calcium release from *Acer* microsomal fractions involves the uptake of potassium 253 (1989) 173
Carlstedt-Duke, J. see P. Hagmar 253 (1989) 28
Carrasco, A. see H. Canut 253 (1989) 173
Changeux, J.-P. see J. Giraudat 253 (1989) 190
Chapman, A. see R. Cammack 253 (1989) 239
Chen, H.-C. see S. Koizumi 253 (1989) 55
Cognon, B. see C.A. Mannella 253 (1989) 231
Contreras, M.L. see P. Lazarovici 253 (1989) 121
Cossarizza, A. see M. Marini 253 (1989) 146
Crowley, P. see A. Papadopoulos 253 (1989) 76

Dahlman, K. see P. Hagmar 253 (1989) 28
De Marcucci, O. see J. Neagle 253 (1989) 11
Denaro, M. see M.C. Moroni 253 (1989) 108
Dermietzel, R., M. Völker, T.-K. Hwang and R.J. Berzbor and H.E. Meyer, A 16 kDa protein co-isolating with gap junctions from brain tissue belonging to the class of proteolipids of the vacuolar H-ATPases 253 (1989) 1
DiOrio, J.P. see P. Lazarovici 253 (1989) 121
Dose, K. see H.-J. Schäfer 253 (1989) 264
Dunbar, B. see J. Neagle 253 (1989) 11
Dunn, B.M. see A.D. Richards 253 (1989) 214

East, J.M. see A.M. Mata 253 (1989) 273
Emori, T. see M. Shichiri 253 (1989) 203
Enßle, M. see M. Karrasch 253 (1989) 226
Escurat, M., H. Phamgia, C. Huc, A. Pouplard-Barthelaix, C. Boitard, J.-F. Bach, F. Gros and M.-M. Portier, A new monoclonal antibody recognizing the amino-terminal consensus sequence of vertebrate intermediate filament proteins 253 (1989) 157

Fedynyshyn, J.P. and N.M. Lee, μ type opioid receptors in rat periaqueductal gray-enriched P_2 membrane are coupled to G-protein-mediated inhibition of adenylyl cyclase 253 (1989) 23
Ferguson, M. see A. Papadopoulos 253 (1989) 76
Ferretti, J.A. see S.C.J. Sumner 253 (1989) 117
Fisher, L.M. see F. McEachern 253 (1989) 67
Franceschi, C. see M. Marini 253 (1989) 146
Frömmel, C. see L. Briedigkeit 253 (1989) 83
Fujisawa, H. see S. Okuno 253 (1989) 52
Fujita, K. see P. Lazarovici 253 (1989) 121

Galietta, L.J.V., T. Mastrocola and M. Nobile, A class of non-selective cation channels in human fibroblasts 253 (1989) 43
Galzi, J.-L. see J. Giraudat 253 (1989) 190

Published by Elsevier Science Publishers B.V. (Biomedical Division)
00145793/89/$3.50 © 1989 Federation of European Biochemical Societies

Giraudat, J., J.-L. Galzi, F. Revah, J.-P. Changeux, P.-Y. Haumont and F. Lederer, The noncompetitive blocker [^{3}H]chlorpromazine labels segment M2 but not segment M1 of the nicotinic acetylcholine receptor α-subunit 253 (1989) 190
Gonzalez de Alfonzo, R. see I. Lippo de Becemberg 253 (1989) 16
Graessmann, A. see H. Weber 253 (1989) 163
Grand, R.J.A. and M.L. Grant, Conformational changes occurring in N-*ras* p21 in response to binding of guanine nucleotide and metal ions probed by proteolysis performed under controlled conditions 253 (1989) 281
Granozzi, C. see M.C. Moroni 253 (1989) 108
Grant, M.L. see R.J.A. Grand 253 (1989) 281
Graziana, A. see H. Canut 253 (1989) 173
Grinstein, S. see D.J. Lu 253 (1989) 151
Gros, F. see M. Escurat 253 (1989) 157
Große, H. see S. Borchert 253 (1989) 183
Gruenbaum, Y. see M. Hershkovitz 253 (1989) 167
Guo, X.-W. see C.A. Mannella 253 (1989) 231
Guroff, G. see S. Koizumi 253 (1989) 55
Gustafsson, J.- Åke see P. Hagmar 253 (1989) 28

Habermann, E. see S. Mochida 253 (1989) 47
Hagmar, P., K. Dahlman, M. Takahashi, J. Carlstedt-Duke, J.- Åke Gustafsson and B. Nordén, Unspecific DNA binding of the DNA binding domain of the glucocorticoid receptor studied with flow linear dichroism 253 (1989) 28
Hama, T. see S. Koizumi 253 (1989) 55
Heldt, H.W. see S. Borchert 253 (1989) 183
Hershkovitz, M., Y. Gruenbaum, N. Zakai and A. Loyter, Gene transfer in plant protoplasts: Inhibition of gene activity by cytosine methylation and expression of single-stranded DNA constructs 253 (1989) 167
Hirata, Y. see M. Shichiri 253 (1989) 203
Hiyama, T. see H. Koike 253 (1989) 257
Huc, C. see M. Escurat 253 (1989) 157
Hulford, A. see J.W. Meadows 253 (1989) 244
Hwang, T.-K. see R. Dermietzel 253 (1989) 1

Ikeuchi, M., H. Koike and Y. Inoue, N-terminal sequencing of low-molecular-mass components in cyanobacterial photosystem II core complex: Two components correspond to unidentified open reading frames of plant chloroplast DNA 253 (1989) 178
Ikeuchi, M. see H. Koike 253 (1989) 257
Indiveri, C. and F. Palmieri, Purification of the mitochondrial carnitine carrier by chromatography on hydroxyapatite and celite 253 (1989) 217
Inoue, Y. see H. Koike 253 (1989) 257
Inoue, Y. see M. Ikeuchi 253 (1989) 178
Ishidoh, K., E. Kominami, N. Katunuma and K. Suzuki, Gene structure of rat cathepsin H 253 (1989) 103

Jahns, P. and W. Junge, The protonic shortcircuit by DCCD in photosystem II: A common feature of all redox transitions of water oxidation 253 (1989) 33
Jullien, M., Early steps in the crystallization process of proteins: an approach by fluorescence anisotropy 253 (1989) 38
Junge, W. see P. Jahns 253 (1989) 33

Kagawa, Y. see H.-J. Schäfer 253 (1989) 264
Kanayama, Y. see S. Okuno 253 (1989) 52
Karagouni, A. see R. Cammack 253 (1989) 239
Karlsson, B.G., R. Aasa, B.G. Malmström and L.G. Lundberg, Rack-induced bonding in blue copper proteins: spectroscopic properties and reduction potential of the azurin mutant Met-121 → Leu 253 (1989) 99
Karrasch, M., G. Börner, M. Enßle and R.K. Thauer, Formylmethanofuran dehydrogenase from methanogenic bacteria, a molybdoenzyme 253 (1989) 226
Katunuma, N. see K. Ishidoh 253 (1989) 103
Kay, J. see A.D. Richards 253 (1989) 214
Kelly, D.P. see R. Cammack 253 (1989) 239
Kloog, Y., D. Bousso-Mittler, A. Bdolah and M. Sokolovsky, Three apparent receptor subtypes for the endothelin/sarafotoxin family 253 (1989) 199
Koike, H., M. Ikeuchi, T. Hiyama and Y. Inoue, Identification of photosystem I components from the cyanobacterium, *Synechococcus vulcanus* by N-terminal sequencing 253 (1989) 257
Koike, H. see M. Ikeuchi 253 (1989) 178
Koizumi, S., A. Ryazanov, T. Hama, H.-C. Chen and G. Guroff, Identification of Nsp100 as elongation factor 2 (EF-2) 253 (1989) 55
Kominami, E. see K. Ishidoh 253 (1989) 103
Kondo, Y. see F. Okajima 253 (1989) 132
Koyama, N., Ammonium-dependent transports of amino acids and glucose in a facultatively anaerobic alkalophile 253 (1989) 187
Kruck, T.P.A. see W.J. Lukiw 253 (1989) 59

Lazarovici, P., K. Fujita, M.L. Contreras, J.P. DiOrio and P.I. Lelkes, Affinity purified tetanus toxin binds to isolated chromaffin granules and inhibits catecholamine release in digitonin-permeabilized chromaffin cells 253 (1989) 121
Lee, A.G. see A.M. Mata 253 (1989) 273
Lee, N.M. see J.P. Fedynyshyn 253 (1989) 23
Lee, R.S. -F., J. Pagan, M. Satre, P.V. Vignais and A.E. Senior, Identification of a mutation in *Escherichia coli* F_1-ATPase β-subunit conferring resistance to aurovertin 253 (1989) 269
Lelkes, P.I. see P. Lazarovici 253 (1989) 121
Lilburn, T.G. see J. Zilsel 253 (1989) 247
Lind, J. see E. Cadenas 253 (1989) 190
Lind, J. see E. Cadenas 253 (1989) 235
Lindsay, J.G. see J. Neagle 253 (1989) 11

Lippo de Becemberg, I., A.E. Peña de Aguilar, I. Camarillo, R. Gonzalez de Alfonzo and M. Alfonzo, Muscarinic agents modify kinetics properties of membrane-bound guanylyl cyclase activity 253 (1989) 16
Lorenzetti, R. see M.C. Moroni 253 (1989) 108
Loyter, A. see M. Hershkovitz 253 (1989) 167
Ludérus, M.E.E., R.G. Van der Most, A.P. Otte and R. Van Driel, A protein kinase C-related enzyme activity in *Dictyostelium discoideum* 253 (1989) 71
Lu, D.J. and S. Grinstein, Concanavalin A stimulation of O_2 consumption in electropermeabilized neutrophils via a pertussis toxin-insensitive G protein 253 (1989) 151
Lukiw, W.J., T.P.A. Kruck and D.R. McLachlan, Linker histone-DNA complexes: enhanced stability in the presence of aluminum lactate and implications for Alzheimer's disease 253 (1989) 59
Lumme, G. see H. Stieve 253 (1989) 6
Lundberg, L.G. see B.G. Karlsson 253 (1989) 99
Lu, W.-P. see R. Cammack 253 (1989) 239

Makino, Y. see T. Nagao 253 (1989) 113
Malmström, B.G. see B.G. Karlsson 253 (1989) 99
Mannella, C.A., X.-W. Guo and B. Cognon, Diameter of the mitochondrial outer membrane channel: evidence from electron microscopy of frozen-hydrated membrane crystals 253 (1989) 231
Marini, M., G. Zunica, D. Monti, A. Cossarizza, C. Ortolani and C. Franceschi, Inhibition of poly(ADP-ribosyl)ation does not prevent lymphocyte entry into the cell cycle 253 (1989) 146
Marumo, F. see M. Shichiri 253 (1989) 203
Mason, W.T. see S.K. Sikdar 253 (1989) 88
Mastrocola, T. see L.J.V. Galietta 253 (1989) 43
Mata, A.M., A.G. Lee and J.M. East, Probing the nucleotide-binding site of sarcoplasmic reticulum (Ca^{2+}-Mg^{2+})-ATPase with anti-fluorescein antibodies 253 (1989) 273
McEachern, F. and L.M. Fisher, Regulation of DNA supercoiling in *Escherichia coli*: genetic basis of a compensatory mutation in DNA gyrase 253 (1989) 67
McLachlan, D.R. see W.J. Lukiw 253 (1989) 59
Meadows, J.W., J.B. Shackleton, A. Hulford and C. Robinson, Targeting of a foreign protein into the thylakoid lumen of pea chloroplasts 253 (1989) 244
Merényi, G. see E. Cadenas 253 (1989) 190
Merényi, G. see E. Cadenas 253 (1989) 235
Meyer, H.E. see R. Dermietzel 253 (1989) 1
Mochida, S., B. Poulain, U. Weller, E. Habermann and L. Tauc, Light chain of tetanus toxin intracellularly inhibits acetylcholine release at neuro-neuronal synapses, and its internalization is mediated by heavy chain 253 (1989) 47
Monti, D. see M. Marini 253 (1989) 146
Moroni, M.C., C. Granozzi, R. Lorenzetti, F. Parenti, M. Sosio and M. Denaro, Cloning of a DNA region of *Actinoplanes teichomyceticus* conferring teicoplanin resistance 253 (1989) 108
Morrice, N. see G.M. Polya 253 (1989) 137

Nagao, T., Y. Makino, K. Yamamoto, I. Urabe and H. Okada, Stability-increasing mutants of glucose dehydrogenase 253 (1989) 113
Najjar, V.A. and N.J. Bump, Covalent peptide transfer to cell membrane proteins (peptidyl transferase) 253 (1989) 129
Nakajima, T. see M. Shichiri9 253 (1989) 203
Neagle, J., O. De Marcucci, B. Dunbar and J.G. Lindsay, Component X of mammalian pyruvate dehydrogenase complex: structural and functional relationship to the lipoate acetyltransferase (E2) component 253 (1989) 11
Nobile, M. see L.J.V. Galietta 253 (1989) 43
Nordén, B. see P. Hagmar 253 (1989) 28

Ohta, K. see M. Shichiri 253 (1989) 203
Okada, H. see T. Nagao 253 (1989) 113
Okajima, F., K. Sato and Y. Kondo, P_2-purinergic agonists activate phospholipase C in a guanine nucleotide- and Ca^{2+}-dependent manner in FRTL-5 thyroid cell membranes 253 (1989) 132
Okuno, S., Y. Kanayama and H. Fujisawa, Regulation of human tyrosine hydroxylase activity: Effects of cyclic AMP-dependent protein kinase, calmodulin-dependent protein kinase II and polyanion 253 (1989) 52
O'Neill, L.P. see B.M. Turner 253 (1989) 141
Ortolani, C. see M. Marini 253 (1989) 146
Otte, A.P. see M.E.E. Ludérus 253 (1989) 71

Pagan, J. see R.S.-F. Lee 253 (1989) 269
Palmieri, F. see C. Indiveri 253 (1989) 217
Papadopoulos, A., P.M. Brophy, P. Crowley, M. Ferguson and J. Barrett, Glutathione transferase in the free-living nematode *Panagrellus redivivus* 253 (1989) 76
Parenti, F. see M.C. Moroni 253 (1989) 108
Peña de Aguilar, A.E. see I. Lippo de Becemberg 253 (1989) 16
Phamgia, H. see M. Escurat 253 (1989) 157
Polya, G.M., N. Morrice and R.E.H. Wettenhall, Substrate specificity of wheat embryo calcium-dependent protein kinase 253 (1989) 137
Portier, M.-M. see M. Escurat 253 (1989) 157
Poulain, B. see S. Mochida 253 (1989) 47
Pouplard-Barthelaix, A. see M. Escurat 253 (1989) 157

Ranjeva, R. see H. Canut 253 (1989) 173
Rathgeber, G. see H.-J. Schäfer 253 (1989) 264
Revah, F. see J. Giraudat 253 (1989) 190
Richards, A.D., A.V. Broadhurst, A.J. Ritchie, B.M. Dunn and J. Kay, Inhibition of the aspartic proteinase from HIV-2 253 (1989) 214
Ritchie, A.J. see A.D. Richards 253 (1989) 214

Robinson, C. see J.W. Meadows 253 (1989) 244
Ryazanov, A. see S. Koizumi 253 (1989) 55

Sato, A. see M. Shichiri 253 (1989) 203
Sato, K. see F. Okajima 253 (1989) 132
Sato, K. see M. Shichiri 253 (1989) 203
Satre, M. see R.S. -F. Lee 253 (1989) 269
Schäfer, H.-J., G. Rathgeber, K. Dose and Y. Kagawa, Photoaffinity cross-linking of F_1ATPase from the thermophilic bacterium PS3 by 3′-arylazido-β-alanyl-2-azido ATP 253 (1989) 264
Senior, A.E. see R.S.-F. Lee 253 (1989) 269
Shackleton, J.B. see J.W. Meadows 253 (1989) 244
Shichiri, M., Y. Hirata, T. Emori, K. Ohta, T. Nakajima, K. Sato, A. Sato and F. Marumo, Secretion of endothelin and related peptides from renal epithelial cell lines 253 (1989) 203
Sikdar, S.K., R. Zorec, D. Brown and W.T. Mason, Dual effects of G-protein activation on Ca-dependent exocytosis in bovine lactotrophs 253 (1989) 88
Sokolovsky, M. see Y. Kloog 253 (1989) 199
Söling, H.-D. see H.-I. Trompeter 253 (1989) 63
Sosio, M. see M.C. Moroni 253 (1989) 108
Spiess, M. see J.P. Beltzer 253 (1989) 93
Stieve, H. and G. Lumme, Similarities between G-proteins in visual cells of *Sepia* and cattle 253 (1989) 6
Sumner, S.C.J. and J.A. Ferretti, Conformational behavior of the linear hexapeptide senktide: a receptor specific tachykinin analog 253 (1989) 117
Suzuki, K. see K. Ishidoh 253 (1989) 103

Takahashi, M. see P. Hagmar 253 (1989) 28
Tang, G.M.-S. see D.I. Arnon 253 (1989) 253
Tauc, L. see S. Mochida 253 (1989) 47
Thauer, R.K. see M. Karrasch 253 (1989) 226
Therisod, H. see N. Bayan 253 (1989) 221
Trompeter, H.-I., I.A. Brand and H.-D. Söling, The primary sequence of the PFK-1 inactivating zinc-binding protein as deduced from cDNA sequencing: Identity of the zinc-binding protein with rat parathymosin 253 (1989) 63
Turner, B.M., L.P. O'Neill and I.M. Allan, Histone H4 acetylation in human cells: Frequency of acetylation at different sites defined by immunolabeling with site-specific antibodies 253 (1989) 141

Urabe, I. see T. Nagao 253 (1989) 113

Van der Most, R.G. see M.E.E. Ludérus 253 (1989) 71
Van Driel, R. see M.E.E. Ludérus 253 (1989) 71
Vignais, P.V. see R.S.-F. Lee 253 (1989) 269
Vitale, L. see M. Abramić 253 (1989) 79
Völker, M. see R. Dermietzel 253 (1989) 1

Weber, H. and A. Graessmann, Biological activity of hemimethylated and single-stranded DNA after direct gene transfer into tobacco protoplasts 253 (1989) 163
Weiner, D.M. and M.R. Brann, The distribution of a dopamine D2 receptor mRNA in rat brain 253 (1989) 207
Weller, U. see S. Mochida 253 (1989) 47
Wessels, H.P. see J.P. Beltzer 253 (1989) 93
Wettenhall, R.E.H. see G.M. Polya 253 (1989) 137

Yamamoto, K. see T. Nagao 253 (1989) 113

Zakai, N. see M. Hershkovitz 253 (1989) 167
Zilsel, J., T.G. Lilburn and J.T. Beatty, Formation of functional inter-species hybrid photosynthetic complexes in *Rhodobacter capsulatus* 253 (1989) 247
Zorec, R. see S.K. Sikdar 253 (1989) 88
Zunica, G. see M. Marini 253 (1989) 146